

## CLAIMS

What is claimed is:

- 1 1. An apparatus, comprising:  
2 a point-to-point communication array to transfer data; and  
3 a hub device, coupled with said point-to-point communication array to  
4 configure said point-to-point communication array by dedication of  
5 a communication medium of said point-to-point communication  
6 array to transfer data between an endpoint device and said hub  
7 device based upon device connectivity.
- 1 2. The apparatus of claim 1, wherein the endpoint device is coupled with said point-  
2 to-point communication array via a connector.
- 1 3. The apparatus of claim 2, wherein the connector comprises a connector having a  
2 primary port and a non-primary port.
- 1 4. The apparatus of claim 2, wherein the connector comprises a detachable coupling  
2 to decouple the connector from the communication medium in response to a signal  
3 from said hub device.
- 1 5. The apparatus of claim 4, the detachable coupling comprises an inductive  
2 coupling to couple the connector with the communication medium.
- 1 6. The apparatus of claim 2, the connector comprises a translator to translate  
2 between magnetic and electrical signals.
- 1 7. The apparatus of claim 1, wherein said point-to-point communication array  
2 comprises a lane to transmit data between the endpoint device and said hub  
3 device.
- 1 8. The apparatus of claim 7, wherein the lane comprises a selectable lane.

1 9. The apparatus of claim 1, wherein said hub device comprises circuitry to provide  
2 peer-to-peer communication.

1 10. The apparatus of claim 1, wherein said hub device comprises logic circuitry  
2 coupled with said point-to-point communication array to select the endpoint  
3 device based upon receipt of a signal to indicate a device connectivity.

1 11. The apparatus of claim 10, wherein the logic circuitry comprises circuitry to  
2 transmit a signal to request a device connectivity.

1 12. A method, comprising:  
2 receiving a signal to indicate a device connectivity for an endpoint device  
3 coupled with a point-to-point communication array;  
4 determining a configuration for the point-to-point communication array  
5 based upon the signal; and  
6 dedicating a first communication medium of the point-to-point  
7 communication array to transfer data between the endpoint device  
8 and a hub device, based upon the configuration.

1 13. The method of claim 12, further comprising requesting an indication of a device  
2 connectivity from the endpoint device via the first communication medium.

1 14. The method of claim 12, wherein said receiving a signal comprises receiving a  
2 signal indicating that a primary port of the endpoint device is coupled with the  
3 first communication medium.

1 15. The method of claim 12, wherein said receiving a signal comprises receiving a  
2 signal indicating that a non-primary port of the endpoint device is coupled with a  
3 second communication medium of the point-to-point communication array.

1 16. The method of claim 12, wherein said determining a configuration comprises  
2 comparing the device connectivity against a connectivity capacity of the point-to-  
3 point communication array.

1 17. The method of claim 12 wherein said determining a configuration comprises  
2 matching the endpoint device with a port based upon a priority.

1 18. The method of claim 12, wherein said determining a configuration comprises  
2 matching the endpoint device with a port based upon a connector to couple the  
3 endpoint to the first communication medium.

1     19.     The method of claim 12, wherein said dedicating a first communication medium  
2           comprises transmitting a signal to couple a port of the endpoint device with the  
3           first communication medium.

1     20.     The method of claim 12, wherein said dedicating a first communication medium  
2     comprises transmitting a signal to decouple a port of the endpoint device from the  
3     first communication medium.

$\frac{d}{dt} \left( \frac{\partial L}{\partial v^i} \right) = \frac{\partial L}{\partial x^i}$

21. A system, comprising:

a memory device to store data;

a chipset coupled with said memory, comprising

a memory controller to access said memory; and

an input-output controller, comprising

a point-to-point communication array to transfer data; and

a hub device, coupled with said point-to-point communication array to configure said point-to-point communication array by dedication of a communication medium of said point-to-point communication array to transfer data between an endpoint device and said hub device based upon device connectivity.

1 22. The system of claim 21, further comprising a processor coupled with said chipset,  
2 to transmit data from said memory via the data transmission medium.

1 23. The system of claim 21, wherein the endpoint device is coupled with said point-  
2 to-point communication array via a connector.

1 24. The system of claim 21, wherein said hub device comprises logic circuitry  
2 coupled with said point-to-point communication array to select the endpoint  
3 device based upon receipt of a signal to indicate a device connectivity.

1 25. A system, comprising:  
2 an input-output device to request data via a transmission medium;  
3 a chipset coupled with said input-output device, comprising  
4 a point-to-point communication array to transfer data; and  
5 a hub device, coupled with said point-to-point communication  
6 array to configure said point-to-point communication array  
7 by dedication of a communication medium of said point-to-  
8 point communication array to transfer data between an  
9 endpoint device and said hub device based upon device  
10 connectivity; and  
11 a processor coupled with said chipset to respond to the request for data via  
12 said chipset.

1 26. The system of claim 25, wherein said chipset further comprises a switch to couple  
2 more than one input-output device with said chipset.

1 27. The system of claim 25, wherein the point-to-point communication array  
2 comprises a lane to transmit data between the endpoint device and said hub  
3 device.

1 28. A machine-readable medium containing instructions, which when executed by a  
2 machine, cause said machine to perform operations, comprising:  
3 receiving a signal to indicate a device connectivity for an endpoint device  
4 coupled with a point-to-point communication array;  
5 determining a configuration for the point-to-point communication array  
6 based upon the signal; and  
7 dedicating a first communication medium of the point-to-point  
8 communication array to transfer data between the endpoint device  
9 and a hub device, based upon the configuration.

1 29. The machine-readable medium of claim 28, requesting an indication of a device  
2 connectivity from the endpoint device via the first communication medium.

1 30. The machine-readable medium of claim 28, wherein said determining a  
2 configuration comprises comparing the device connectivity against a connectivity  
3 capacity of the point-to-point communication array.